AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous versions, and listings, of claims in
the present application.
Please cancel claims 1-15 and 19-27 without prejudice or disclaimer.
Please amend claims 16 and 28 and add new claims 31 and 32 as follows:
1 15. (Canceled)
16. (Currently Amended) A silicon carbide single crystal comprising:
a crystalline structure containing
an n-type dopant atom having a smaller atomic radius than silicon, and
a metallic atom, other than a light metals metal, having a larger atomic
radius than silicon in a crystalline structure thereof and including tantalum.
17. (Original) A silicon carbide single crystal as in claim 16, wherein:
concentration of the n-type dopant atom is from 1×10^{16} to 1×10^{20} cm ⁻³ .
18. (Original) A silicon carbide single crystal as in claim 16, wherein:
concentration of the metallic atom is from 1×10^{14} to 1×10^{18} cm ⁻³ .
19 27. (Canceled)

28. (Currently Amended) A silicon carbide single crystal comprising:

a crystalline structure including

_____a p-type dopant atom having a larger atomic radius than carbon, and
_____an atom having a smaller atomic radius than silicon and including fluorine
contained in a carbon fluoride gas.

- 29. (Original) A silicon carbide single crystal as in claim 28, wherein: concentration of the p-type dopant atom is from 1×10^{16} to 1×10^{20} cm⁻³.
- 30. (Original) A silicon carbide single crystal as in claim 28, wherein: concentration of the atom having a smaller atomic radius than silicon of from 1×10^{14} to 1×10^{18} cm⁻³.
- 31. (New) A silicon carbide single crystal as in claim 17, wherein:

 the n-type dopant atom includes one of nitrogen and phosphorous.
- 32. (New) A silicon carbide single crystal as in claim 29, wherein:
 the p-type dopant atom includes one of boron, aluminum, and gallium.